**WHAT IS CLAIMED IS:**

1. An edge enhancement processing system for modifying image data at certain pixel locations to include gray scale image data so as to reduce jaggedness in the image, the system comprising:

an adjustable threshold device that establishes a current binary pixel value for an incoming current gray level pixel in accordance with a thresholding criterion;

an operator accessible input to the threshold device for adjusting a threshold value in the thresholding criterion; and

an edge enhancement image processing device that examines the current binary pixel and neighboring binary pixels in accordance with predetermined criteria for determining adjustment of the current pixel to a gray scale value to reduce edge jaggedness of the image.

2. An edge enhancement method for processing image data comprising:

determining an adjustable threshold value in a thresholding criterion in response to an input from an operator;

establishing a current binary pixel value for an incoming current gray level pixel in accordance with the thresholding criterion that employs the threshold value ;

examining a current binary pixel and neighboring pixels thereto in accordance with predetermined criteria to determine an adjustment of the current binary pixel to a gray scale value to reduce edge jaggedness of the image; and

substituting the gray scale value for the current binary pixel to reduce edge jaggedness of the image.

3. The method according to claim 2 wherein the image data is color separation image data that has been subjected to under color removal and/or gray component replacement before being transformed into a binary pixel.

4. The method according to claim 3 and including providing an operator adjustable modification of the strength of the gray scale value substituted for the current binary pixel.

5. The method according to claim 2 wherein the image data is color separation image data that has been subjected to a color transformation process before being transformed into a binary pixel.

6. The method according to claim 5 and including providing an operator adjustable modification of the strength of the gray scale value substituted for the current binary pixel.

7. The method according to claim 2 wherein the adjustable threshold value is determined in accordance with a selection by the operator of a color image processing that includes under color removal and/or gray component replacement.

8. An edge enhancement method for processing image data comprising:

processing image data using under color removal and/or gray component replacement; and

adjusting edge enhancement processing of the image data in accordance with whether or not under color removal and/or gray component replacement is used or the extent of such use.

9. The method according to claim 8 wherein the adjustment comprises adjustment of a threshold value used for comparing image data processed by under color removal and/or gray component replacement.